

ABSTRACT OF THE DISCLOSURE

An OFDM receiver includes a converter configured to generate a transform signal by Fourier transform of a received signal. A first interpolator is configured to detect a pilot signal from the transform signal, and to provide time interpolation to the pilot signal. An interference detector is configured to provide arithmetic processing to the time interpolated pilot signal, and to detect interference by comparing a result of the arithmetic processing with a threshold. A second interpolator is configured to provide frequency interference interpolation with respect to the interference detected pilot signal, and to provide frequency interpolation to the pilot signal after the interference interpolation. A demodulator is configured to perform demodulation based on the transform signal and the frequency interpolated pilot signal.